



UNIVERSIDAD  
DE GRANADA



## PhD in Clinical Medicine and Public Health

### Research Area: Stomatology

**Title:** Evaluation of the efficacy and safety of the mandibular manipulation technique associated with viscosupplementation in the control of the evolution of degenerative joint disease of the temporomandibular joint of patients DDSR: RCT

The disc displacement without reduction of the temporomandibular joint is usually accompanied by severe pain and limitation of the buccal opening. Although mandibular manipulation and viscosupplementation (intra-articular infiltration of sodium hyaluronate) are therapeutic interventions used for large synovial joints, there is no conclusive evidence for the treatment of temporomandibular dysfunction. Therefore, the literature indicates the need for randomized controlled clinical trials on these techniques. The objectives of this study are to evaluate the efficacy and safety of the mandibular manipulation technique associated with viscosupplementation in the control of the evolution of the degenerative joint disease of the temporomandibular joint of the DDSR patients. Ninety patients diagnosed with disc displacement without reduction will be selected, which will be allocated in two experimental groups and one control group. One experimental group will be submitted to mandibular manipulation and viscosupplementation with Sodium hyaluronate, the second control group will be submitted to arthrocentesis with sodium hyaluronate infiltration. The control group will receive educational therapy and behavioral guidelines. Clinical diagnoses, assessment of quality of life perception, magnetic resonance imaging and computed tomography of all patients will be performed prior to the interventions and three hundred and sixty-five days after treatment. The clinical symptomatology will be evaluated by instruments validated before, thirty days after the first intervention and three hundred and sixty-five days after the treatment.

**Keywords:** musculoskeletal manipulations, viscosupplementation, randomized clinical trial, temporomandibular joint disorders, temporomandibular joint dysfunction syndrome

**Publications**

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